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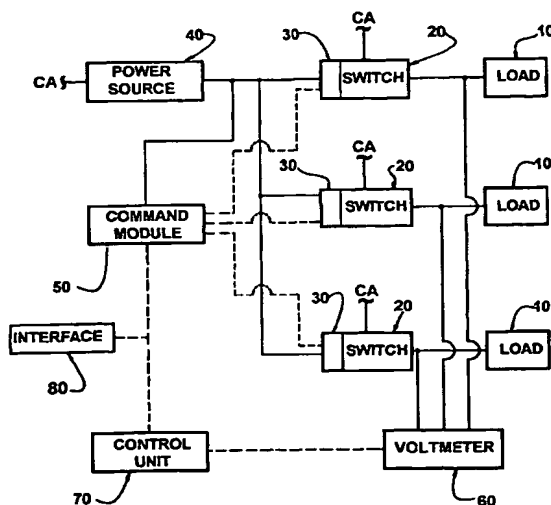
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(54) Title: **DIAGNOSIS SYSTEM FOR HOUSEHOLD ELECTRIC APPLIANCES**



(57) Abstract: A diagnosis system for household electric appliances, such as refrigerators, freezers, and others, presenting multiple loads (10) energized by switches (20) commanded by electronic controls (30) coupled to a command module (50), which energizes the loads (10) and an interface (80). The system comprises: a voltmeter (60) to measure a first voltage (V<sub>off</sub>) in the inlet of the loads (10) with the switches (20) opened, and a second voltage (V<sub>res</sub>, V<sub>lamp</sub>, V<sub>comp</sub>) in the inlet of each load (10) with the respective switch (20) closed; a control unit (70) for processing the values of the first voltage (V<sub>off</sub>) and of each second voltage (V<sub>res</sub>, V<sub>lamp</sub>, V<sub>comp</sub>), indicating in the interface (80) the existence of failure in the command module (50), in the switches (20), and in the respective electronic controls (30) thereof, and interrupting the sequence of tests, in case any second voltage (V<sub>res</sub>, V<sub>lamp</sub>, V<sub>comp</sub>) presents a value that is equal to or higher than that of the first voltage (V<sub>off</sub>).

WO 2004/051293 A1